INPUT DATA

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## DOC DU LIEU TU FILE TXT

setwd("D:/dataR/bandauR")  
ch12bt20=read.table("ch12bt20.txt",header=TRUE)  
# xuat so lieu ra m?n h?nh  
ch12bt20

## TIME GDP PCE PDI PROFIT DIVIDENT  
## 1 1970Q1 2872.8 1800.5 1990.6 44.7 24.5  
## 2 1970Q2 2860.3 1807.5 2020.1 44.4 23.9  
## 3 1970Q3 2896.6 1824.7 2045.3 44.9 23.3  
## 4 1970Q4 2873.7 1821.2 2045.2 42.1 23.1  
## 5 1971Q1 2942.9 1849.9 2073.9 48.8 23.8  
## 6 1971Q2 2947.4 1863.5 2098.0 50.7 23.7  
## 7 1971Q3 2966.0 1876.9 2106.6 54.2 23.8  
## 8 1971Q4 2980.8 1904.6 2121.1 55.7 23.7  
## 9 1972Q1 3037.3 1929.3 2129.7 59.4 25.0  
## 10 1972Q2 3089.7 1963.3 2149.1 60.1 25.5  
## 11 1972Q3 3125.8 1989.1 2193.9 62.8 26.1  
## 12 1972Q4 3175.5 2032.1 2272.0 68.3 26.5  
## 13 1973Q1 3253.3 2063.9 2300.7 79.1 27.0  
## 14 1973Q2 3267.6 2062.0 2315.2 81.2 27.8  
## 15 1973Q3 3264.3 2073.7 2337.9 81.3 28.3  
## 16 1973Q4 3289.1 2067.4 2382.7 85.0 29.4  
## 17 1974Q1 3259.4 2050.8 2334.7 89.0 29.8  
## 18 1974Q2 3267.6 2059.0 2304.5 91.2 30.4  
## 19 1974Q3 3239.1 2065.5 2315.0 97.1 30.9  
## 20 1974Q4 3226.4 2039.9 2313.7 86.8 30.5  
## 21 1975Q1 3154.0 2051.8 2282.5 75.8 30.0  
## 22 1975Q2 3190.4 2086.9 2390.3 81.0 29.7  
## 23 1975Q3 3249.9 2114.4 2354.4 97.8 30.1  
## 24 1975Q4 3292.5 2137.0 2389.4 103.4 30.6  
## 25 1976Q1 3356.7 2179.3 2424.5 108.4 32.6  
## 26 1976Q2 3369.2 2194.7 2434.9 109.2 35.0  
## 27 1976Q3 3381.0 2213.0 2444.7 110.0 36.6  
## 28 1976Q4 3416.3 2242.0 2459.5 110.3 38.3  
## 29 1977Q1 3466.4 2271.3 2463.0 121.5 39.2  
## 30 1977Q2 3525.0 2280.8 2490.3 129.7 40.0  
## 31 1977Q3 3574.4 2302.6 2541.0 135.1 41.4  
## 32 1977Q4 3567.2 2331.6 2556.2 134.8 42.4  
## 33 1978Q1 3591.8 2347.1 2587.3 137.5 43.5  
## 34 1978Q2 3707.0 2394.0 2631.9 154.0 44.5  
## 35 1978Q3 3735.6 2404.5 2653.2 158.0 46.6  
## 36 1978Q4 3779.6 2421.6 2680.9 167.8 48.9  
## 37 1979Q1 3780.8 2437.9 2699.2 168.2 50.5  
## 38 1979Q2 3784.3 2435.4 2697.6 174.1 51.8  
## 39 1979Q3 3807.5 2454.7 2715.3 178.1 52.7  
## 40 1979Q4 3814.6 2465.4 2728.1 173.4 54.5  
## 41 1980Q1 3830.8 2464.6 2742.9 174.3 57.6  
## 42 1980Q2 3732.6 2414.2 2692.0 144.5 58.7  
## 43 1980Q3 3733.5 2440.3 2722.5 151.0 59.3  
## 44 1980Q4 3808.5 2469.2 2777.0 154.6 60.5  
## 45 1981Q1 3860.5 2475.5 2783.7 159.5 64.0  
## 46 1981Q2 3844.4 2476.1 2776.7 143.7 68.4  
## 47 1981Q3 3864.5 2487.4 2814.1 147.6 71.9  
## 48 1981Q4 3803.1 2468.6 2808.8 140.3 72.4  
## 49 1982Q1 3756.1 2484.0 2795.0 114.4 70.0  
## 50 1982Q2 3771.1 2488.9 2824.8 114.0 68.4  
## 51 1982Q3 3754.4 2502.5 2829.0 114.6 69.2  
## 52 1982Q4 3759.6 2539.3 2832.6 109.9 72.5  
## 53 1983Q1 3783.5 2556.5 2843.6 113.6 77.0  
## 54 1983Q2 3886.5 2604.0 2867.0 133.0 80.5  
## 55 1983Q3 3944.4 2639.0 2903.0 145.7 83.1  
## 56 1983Q4 4012.1 2678.2 2960.6 141.6 84.2  
## 57 1984Q1 4089.5 2703.8 3033.2 155.1 83.3  
## 58 1984Q2 4144.0 2741.1 3065.9 152.6 82.2  
## 59 1984Q3 4166.4 2754.6 3102.7 141.8 81.7  
## 60 1984Q4 4194.2 2784.8 3118.5 136.3 83.4  
## 61 1985Q1 4221.8 2824.9 3123.6 125.2 87.2  
## 62 1985Q2 4254.8 2849.7 3189.6 124.8 90.8  
## 63 1985Q3 4309.0 2893.3 3156.5 129.8 94.1  
## 64 1985Q4 4333.5 2895.3 3178.7 134.2 97.4  
## 65 1986Q1 4390.5 2922.4 3227.5 109.2 105.1  
## 66 1986Q2 4387.7 2947.9 3281.4 106.0 110.7  
## 67 1986Q3 4412.6 2993.7 3272.6 111.0 112.3  
## 68 1986Q4 4427.1 3012.5 3266.2 119.2 111.0  
## 69 1987Q1 4460.0 3011.5 3295.2 140.2 108.0  
## 70 1987Q2 4515.3 3046.8 3241.7 157.9 105.5  
## 71 1987Q3 4559.3 3075.8 3285.7 169.1 105.1  
## 72 1987Q4 4625.5 3074.6 3335.8 176.0 106.3  
## 73 1988Q1 4655.3 3128.2 3380.1 195.5 109.6  
## 74 1988Q2 4704.8 3147.8 3386.3 207.2 113.3  
## 75 1988Q3 4734.5 3170.6 3407.5 213.4 117.5  
## 76 1988Q4 4779.7 3202.9 3443.1 226.0 121.0  
## 77 1989Q1 4809.8 3200.9 3473.9 221.3 124.6  
## 78 1989Q2 4832.4 3208.6 3450.9 206.2 127.1  
## 79 1989Q3 4845.6 3241.1 3466.9 195.7 129.1  
## 80 1989Q4 4859.7 3241.6 3493.0 203.0 130.7  
## 81 1990Q1 4880.8 3258.8 3531.4 199.1 132.3  
## 82 1990Q2 4900.3 3258.6 3545.3 193.7 132.5  
## 83 1990Q3 4903.3 3281.2 3547.0 196.3 133.8  
## 84 1990Q4 4855.1 3251.8 3529.5 199.0 136.2  
## 85 1991Q1 4824.0 3241.1 3514.8 189.7 137.8  
## 86 1991Q2 4840.7 3252.4 3537.4 182.7 136.7  
## 87 1991Q3 4862.7 3271.2 3539.9 189.6 138.1  
## 88 1991Q4 4868.0 3271.1 3547.5 190.3 138.5

## DOC DU LIEU TU FILE CSV

setwd("D:/dataR/bandauR")  
ch12bt10=read.csv("ch12bt20.csv", header=TRUE)  
# Xuat so lieu ra man hinh  
View(ch12bt20)  
# Ghi file so lieu dang "rda"  
save(ch12bt20, file= "ch12bt20.rda")

## DOC DU LIEU TU FILE EXCEL

### Doc FILE EXCEL

library(readxl)  
setwd("D:/dataR/bandauR")  
ch12bt20= read\_excel("ch12bt20.xls")  
View(ch12bt20)  
# save(ch12bt20, file= "ch12bt20.rda")  
ch12bt20

## # A tibble: 88 × 5  
## GDP PDI PCE PROFIT DIVIDENT  
## <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 2873. 1991. 1800. 44.7 24.5  
## 2 2860. 2020. 1808. 44.4 23.9  
## 3 2897. 2045. 1825. 44.9 23.3  
## 4 2874. 2045. 1821. 42.1 23.1  
## 5 2943. 2074. 1850. 48.8 23.8  
## 6 2947. 2098 1864. 50.7 23.7  
## 7 2966 2107. 1877. 54.2 23.8  
## 8 2981. 2121. 1905. 55.7 23.7  
## 9 3037. 2130. 1929. 59.4 25   
## 10 3090. 2149. 1963. 60.1 25.5  
## # … with 78 more rows

GDP=ch12bt20$GDP  
GDP

## [1] 2872.8 2860.3 2896.6 2873.7 2942.9 2947.4 2966.0 2980.8 3037.3 3089.7  
## [11] 3125.8 3175.5 3253.3 3267.6 3264.3 3289.1 3259.4 3267.6 3239.1 3226.4  
## [21] 3154.0 3190.4 3249.9 3292.5 3356.7 3369.2 3381.0 3416.3 3466.4 3525.0  
## [31] 3574.4 3567.2 3591.8 3707.0 3735.6 3779.6 3780.8 3784.3 3807.5 3814.6  
## [41] 3830.8 3732.6 3733.5 3808.5 3860.5 3844.4 3864.5 3803.1 3756.1 3771.1  
## [51] 3754.4 3759.6 3783.5 3886.5 3944.4 4012.1 4089.5 4144.0 4166.4 4194.2  
## [61] 4221.8 4254.8 4309.0 4333.5 4390.5 4387.7 4412.6 4427.1 4460.0 4515.3  
## [71] 4559.3 4625.5 4655.3 4704.8 4734.5 4779.7 4809.8 4832.4 4845.6 4859.7  
## [81] 4880.8 4900.3 4903.3 4855.1 4824.0 4840.7 4862.7 4868.0

summary(ch12bt20)

## GDP PDI PCE PROFIT DIVIDENT   
## Min. :2860 Min. :1991 Min. :1800 Min. : 42.10 Min. : 23.10   
## 1st Qu.:3284 1st Qu.:2388 1st Qu.:2108 1st Qu.: 97.62 1st Qu.: 30.57   
## Median :3784 Median :2777 Median :2469 Median :134.50 Median : 62.25   
## Mean :3866 Mean :2800 Mean :2537 Mean :131.30 Mean : 69.16   
## 3rd Qu.:4396 3rd Qu.:3248 3rd Qu.:2959 3rd Qu.:168.43 3rd Qu.:105.20   
## Max. :4903 Max. :3548 Max. :3281 Max. :226.00 Max. :138.50

cor(ch12bt20)

## GDP PDI PCE PROFIT DIVIDENT  
## GDP 1.0000000 0.9950656 0.9977719 0.8708446 0.9803842  
## PDI 0.9950656 1.0000000 0.9970208 0.8469249 0.9823159  
## PCE 0.9977719 0.9970208 1.0000000 0.8521175 0.9842477  
## PROFIT 0.8708446 0.8469249 0.8521175 1.0000000 0.7894042  
## DIVIDENT 0.9803842 0.9823159 0.9842477 0.7894042 1.0000000

summary(GDP)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 2860 3284 3784 3866 4396 4903

summary(ch12bt20$GDP)

## Min. 1st Qu. Median Mean 3rd Qu. Max.   
## 2860 3284 3784 3866 4396 4903

# cách 2 lấy biến số từ ma trân  
mean(GDP)

## [1] 3865.606

var(GDP)

## [1] 396944

sd(GDP)

## [1] 630.0349

quantile(GDP)

## 0% 25% 50% 75% 100%   
## 2860.300 3283.725 3783.900 4396.025 4903.300

library(stargazer)

##   
## Please cite as:

## Hlavac, Marek (2022). stargazer: Well-Formatted Regression and Summary Statistics Tables.

## R package version 5.2.3. https://CRAN.R-project.org/package=stargazer

stargazer(ch12bt20,type="text", "Các thông kê mô tả", digits=2)

##   
## =================================  
## Statistic N Mean St. Dev. Min Max  
## =================================  
##   
## ==================  
## Các thông kê mô tả  
## ------------------

### Doc FILE SPSS

library(haven)

## Warning: package 'haven' was built under R version 4.2.2

setwd("D:/dataR/bandauR")  
ch9bt1=read\_sav("ch9bt1.sav")  
View(ch9bt1)  
save(ch9bt1, file="ch9bt1.rda")  
ch9bt1

## # A tibble: 17 × 6  
## NM NNI IPD R M Y  
## <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>  
## 1 1899. 86.5 100 3.03 19.0 28.5  
## 2 1880. 90.1 102. 3.07 18.4 29.3  
## 3 1979. 95.3 108. 3.15 18.4 30.3  
## 4 1804. 99.7 110. 3.41 16.5 29.2  
## 5 1765. 98.2 104. 3.66 17.0 26.8  
## 6 1794. 105. 104. 3.64 17.2 28.8  
## 7 1921. 96.1 93.5 3.7 20.5 26.0  
## 8 2217. 99.8 95.2 3.74 23.3 26.7  
## 9 2342. 113. 103. 3.99 22.8 28.3  
## 10 2413. 114. 105. 4.18 23.1 27.2  
## 11 2526. 127. 108. 4.13 23.4 30.7  
## 12 2720. 130. 109. 4.05 24.9 32.0  
## 13 2869. 141. 111. 4.06 25.8 34.8  
## 14 3046. 148 113. 4.16 26.9 35.6  
## 15 3310. 154 116. 4.49 28.6 34.3  
## 16 3752. 172. 123. 4.66 30.5 36.9  
## 17 4080. 200. 133. 4.8 30.7 41.7